

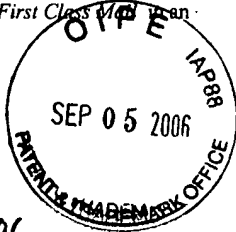
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On August 31, 2006

MORGAN, LEWIS & BOCKIUS LLP

By: Kathryn A. Degliantoni
Kathryn A. Degliantoni



1618

PATENT
Attorney Docket No.: 61810-5002 US02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Bruce H. Lipshutz, *et al.*

Application No.: 10/581,566

Filed: June 2, 2006

For: PRACTICAL, COST-EFFECTIVE
SYNTHESIS OF UBIQUINONES

Customer No.: 43850

Examiner: Unassigned

Confirmation No. : 6231

Technology Center/Art Unit: 1617

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/8A are being called to the attention of the Examiner. Copies of the references are enclosed. Also enclosed is a copy of the European and Int'l. Search/Examination reports corresponding to the International Application No. PCT/US04/40565. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.


As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

CERTIFICATION

I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.

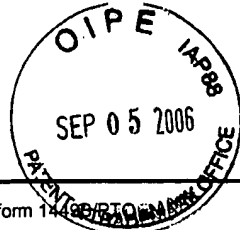
Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 50-0310. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



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Substitute for form 1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/581,566		
		Filing Date	June 2, 2006		
		First Named Inventor	Lipshutz, Bruce H.		
		Art Unit	1617		
		Confirmation No.	6231		
		Examiner Name	Unassigned		
Sheet		of		Attorney Docket Number	61810-5002-US02

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	6,545,184	04-08-2003	LIPSHUTZ	

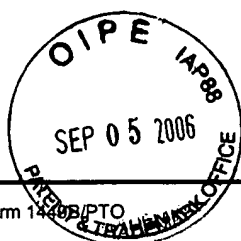
FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD- YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Feldman, Ken S., "Cyclization Pathways of a (Z)-Stilbene-Derived Bis(orthoquinone Monoketal," <u>J. Org. Chem.</u> , 62:4983-4990 (1997)	
		Hisashi Ishii, <i>et al.</i> , "Synthetic Studies on Naturally Occurring Coumarins. II. Synthesis of 6,7-Dimethoxy- and 7,8-Dimethoxy-5-[(E)-3-oxo-1-butenyl] coumarins," <u>Chem. Pharm. Bull.</u> 40(10):2614-2619 (1992)	
		Lipshutz, Bruce H., <i>et al.</i> , "A Convergent Approach to Coenzyme Q," <u>J. Am. Chem. Soc.</u> , 121:11664-11673 (1999)	
		Lipshutz, Bruce H., <i>et al.</i> , "A Novel Route to Coenzyme Q _n ," <u>J. Am. Chem. Soc.</u> , 118:5512-5513 (1996)	
		Lipshutz, Bruce H., <i>et al.</i> , "Nickel on Charcoal ("Ni/C"): An Expedient and Inexpensive Heterogeneous Catalyst for Cross-Couplings Between Aryl Chlorides and Organometallics. I. Functionalized Ortonozinc Reagents," <u>J. Am. Chem. Soc.</u> , 121:5819-5820 (1999)	
		Lipshutz, Bruce H., <i>et al.</i> , "An Expeditious Route to CoQ _n , Vitamins K ₁ and K ₂ , and Related Allylated <i>para</i> -Quinones Utilizing Ni(0) Catalysis," <u>Tetrahedron</u> , 54(7):1241-1253 (1998)	
		Lipshutz, Bruce H., <i>et al.</i> , "Allylated Aromatics Via Ni-catalyzed Couplings of Benzylic Chlorides and Vinylic Organometallics," <u>Tetrahedron</u> , 52(21):7265-7276 (1996)	

Examiner Signature	1-SF/7409068.1	Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.



PTO/SB/08B (08-03)

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
			Myers, Andrew G., <i>et al.</i> , "Synthesis of the Naphthoic Acid Component of Kedarcidin Chromophore by Routes Employing Photochemical and Thermal Electrocyclic Ring Closure Reactions," <u>Tetrahedron Letters</u> , 38(25):4363-4366 (1997)				
			Seshadri, <i>et al.</i> , "New Synthesis of Fumigatin, Spinulosin Monomethyl Ethers, and Aurantiogliocladin," <u>Journal of the Chemical Society</u> , Abstracts 1660-2 Coden: JCSCAAZ; ISSN: 0590-9791, XP008051014 *compound VI* (1959)				
			Van Der Klashorst, Gerrit H., "The Modification of Lignin at Positions 2 and 6 of the Phenylpropanoid Nuclei. Part II. Hydroxymethylation of Lignin Model Compounds," <u>Journal of Wood Chemistry and Technology</u> , 8(2):209-220 (1988)				

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